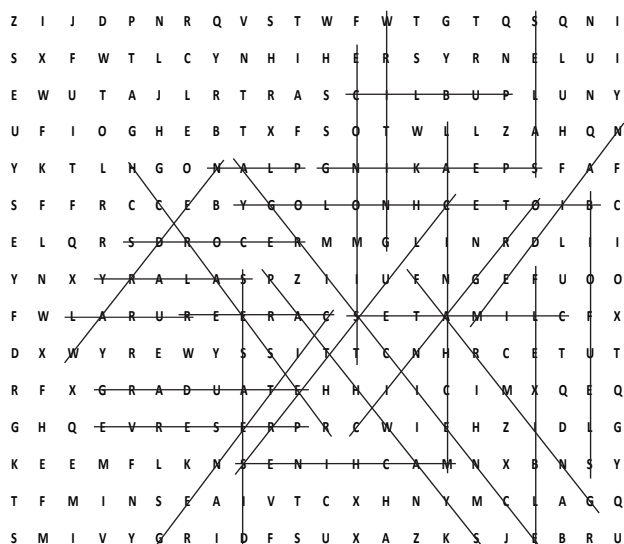


Activity Answers

ACTIVITY 1.1

- | | |
|------------------|---------------|
| 1. agriscience | 15. plan |
| 2. clusters | 16. flexible |
| 3. pathways | 17. biofuels |
| 4. public | 18. graduate |
| 5. biotechnology | 19. median |
| 6. mechanical | 20. economist |
| 7. genetic | 21. sales |
| 8. farming | 22. warden |
| 9. diseases | 23. organic |
| 10. rural | 24. research |
| 11. preserve | 25. machines |
| 12. climates | 26. writing |
| 13. career | 27. speaking |
| 14. salary | 28. records |



ACTIVITY 1.2

- | | |
|-----------------------|-----------------------|
| 1. body parts | 10. snow ski supplies |
| 2. tools | 11. crafting supplies |
| 3. shoes | 12. planets |
| 4. oceans | 13. art/hobbies |
| 5. states | 14. explorers |
| 6. fruit | 15. gems |
| 7. fish | 16. instruments |
| 8. flowers | 17. bones |
| 9. winter accessories | 18. shape |

ACTIVITY 1.3

The career research paper can be graded using the research report grading rubric.

ACTIVITY 1.4

Answers will vary according to student preferences.

ACTIVITY 1.5

Answers will vary according to student preferences.

ACTIVITY 1.6

Bingo game can be played according to teacher's rules.

ACTIVITY 1.7

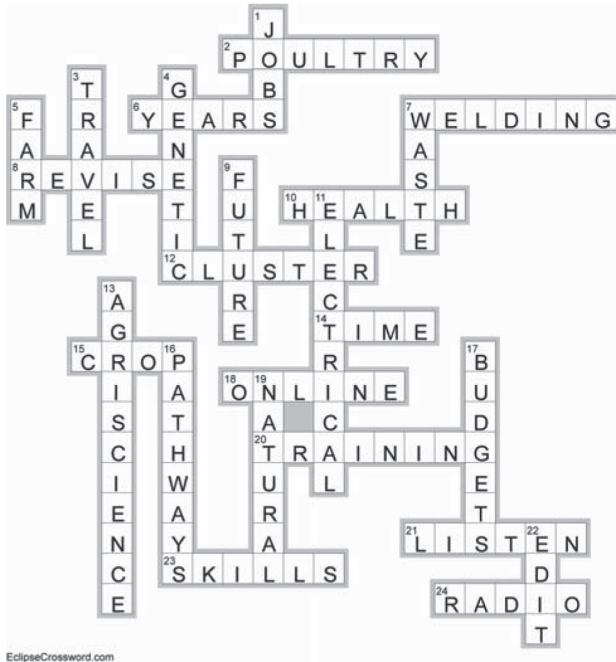
Answers will vary according to student preferences.

ACTIVITY 1.8

- | | |
|----------------|---------------|
| 1. agriculture | 7. jobs |
| 2. agriscience | 8. skills |
| 3. cluster | 9. interests |
| 4. pathway | 10. training |
| 5. goals | 11. education |
| 6. college | |

Final Word: opportunities

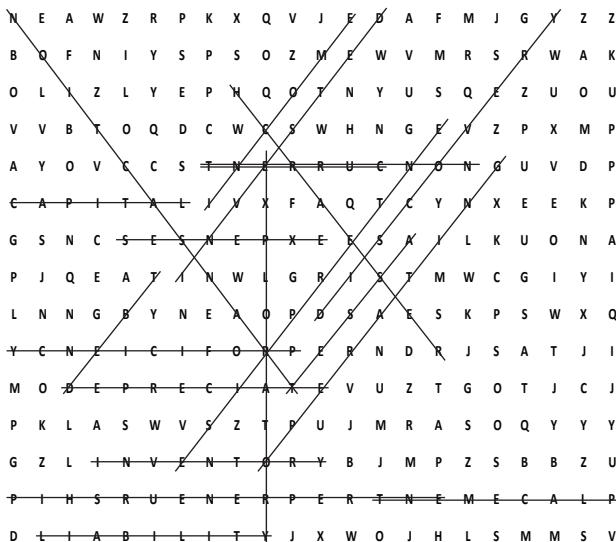
ACTIVITY 1.9



EclipseCrossword.com

ACTIVITY 2.1

- | | |
|---------------------|-----------------|
| 1. depreciate | 11. expenses |
| 2. inventory | 12. noncurrent |
| 3. asset | 13. discovery |
| 4. invested | 14. exploratory |
| 5. capital | 15. operating |
| 6. enterprise | 16. income |
| 7. current | 17. placement |
| 8. transaction | 18. liability |
| 9. entrepreneurship | 19. research |
| 10. debt | 20. proficiency |



ACTIVITY 2.2

- | | |
|----------------------|----------------------|
| 1. entrepreneurship | 16. exploratory |
| 2. entrepreneurship | 17. entrepreneurship |
| 3. school-based | 18. placement |
| 4. placement | 19. research |
| 5. research | 20. service learning |
| 6. exploratory | 21. entrepreneurship |
| 7. research | 22. exploratory |
| 8. research | 23. entrepreneurship |
| 9. exploratory | 24. placement |
| 10. service learning | 25. school-based |
| 11. entrepreneurship | 26. research |
| 12. entrepreneurship | 27. exploratory |
| 13. placement | 28. entrepreneurship |
| 14. placement | 29. exploratory |
| 15. research | |

ACTIVITY 2.3

- | | |
|--------|--------------------------------------|
| 1. C | 14. NC |
| 2. C | 15. NC |
| 3. NC | 16. C |
| 4. C | 17. \$8,715.00 |
| 5. NC | 18. \$12,750.00 |
| 6. NC | 19. \$562.50 (round to \$563.00) |
| 7. C | 20. \$9,600 |
| 8. C | 21. \$465.00 |
| 9. NC | 22. \$1,781.25 (round to \$1,781.00) |
| 10. C | 23. \$37.50 |
| 11. C | 24. \$75.00 |
| 12. NC | 25. \$175.00 |
| 13. NC | 26. \$700.00 |

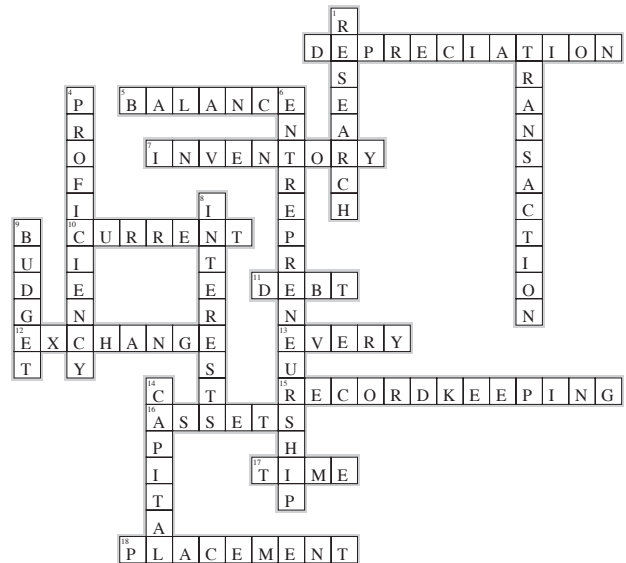
ACTIVITY 2.4

- Annual depreciation: \$62.50/year
Book value ending year 3: \$1,012.50
- Annual depreciation: \$333.33
Book value ending year 2: \$7,333.33
- Annual depreciation: \$100
Book value ending year 3: \$2,200
- Annual depreciation: \$40
Book value ending year 7: \$820
- Annual depreciation: \$100
Book value ending year 4: \$1,300
- Annual depreciation: \$384
Book value ending year 2: \$19,732
- Annual depreciation: \$50
Book value ending year 6: \$450
- Annual depreciation: \$40
Book value ending year 10: \$1,100
- Annual depreciation: \$100
Book value ending year 2: \$550
- Annual depreciation: \$43.75
Book value ending year 5: \$681.25

ACTIVITY 2.5

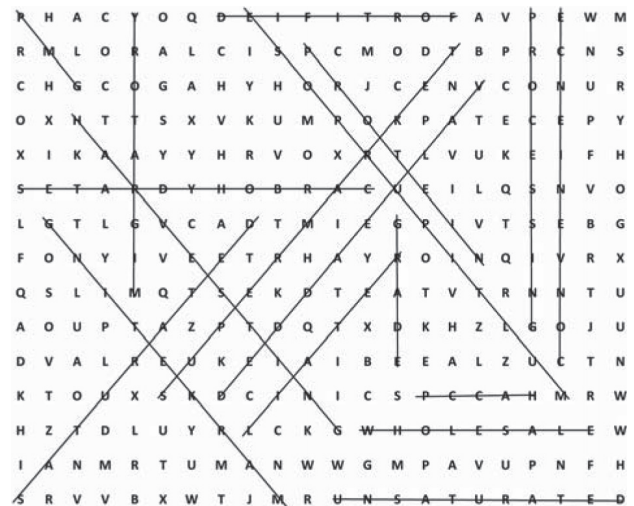
- | | |
|------|-------|
| 1. A | 10. E |
| 2. A | 11. D |
| 3. A | 12. A |
| 4. B | 13. B |
| 5. D | 14. C |
| 6. C | 15. F |
| 7. D | 16. F |
| 8. F | 17. B |
| 9. D | 18. D |

ACTIVITY 2.6



ACTIVITY 3.1

- | | |
|-----------------|-------------------|
| 1. harvesting | 10. convenience |
| 2. migratory | 11. grades |
| 3. processing | 12. HACCP |
| 4. value added | 13. GMP |
| 5. marketing | 14. fortified |
| 6. wholesale | 15. unsaturated |
| 7. retail | 16. protein |
| 8. supermarket | 17. carbohydrates |
| 9. multipurpose | 18. saturated |



ACTIVITY 3.2

Answers will vary.

ACTIVITY 3.3

Answers will vary.

ACTIVITY 3.4

Answers will vary.

ACTIVITY 3.5

Answers will vary.

ACTIVITY 3.6

Answers will vary.

ACTIVITY 3.7

Fallen Phrase: USDA and FDA

Students should explain how the USDA and FDA are involved in the food industry.

ACTIVITY 3.8

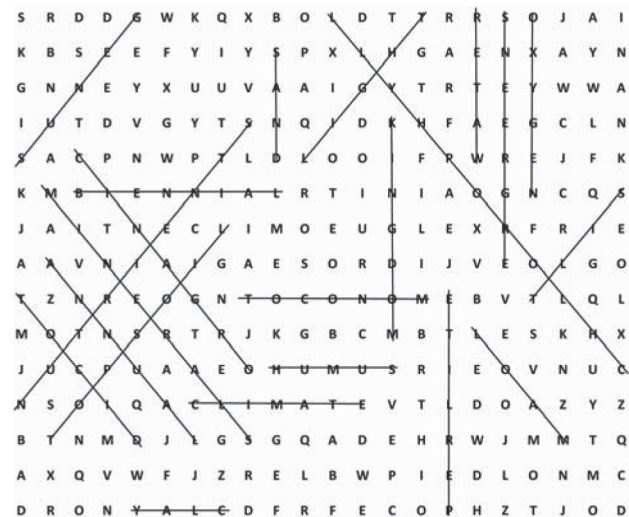
Answers will vary.

ACTIVITY 3.9



ACTIVITY 4.1

- | | |
|-----------------|---------------|
| 1. kingdom | 13. light |
| 2. genus | 14. nutrients |
| 3. rosea | 15. organic |
| 4. annual | 16. perlite |
| 5. biennial | 17. topsoil |
| 6. dormant | 18. loam |
| 7. evergreens | 19. climate |
| 8. dicot | 20. minerals |
| 9. monocot | 21. humus |
| 10. chlorophyll | 22. sand |
| 11. oxygen | 23. silt |
| 12. water | 24. clay |



ACTIVITY 4.2

The career research paper can be graded using the research report grading rubric.

ACTIVITY 4.3

1. *Ulmus Americana*
2. *Cynodon dactylon*
3. *Rudbeckia hirta*
4. *Quercus marilandica*
5. *Baptisia australis*
6. *Mimosa quadrivalvis*
7. *Populus deltoids*
8. *Juniperus virginiana*
9. *Gaillardia pulchella*
10. *Sorghum halepense*
11. *Carduus nutans*
12. *Coreopsis tinctoria*
13. *Toxicodendron radicans*
14. *Echinacea angustifolia*
15. *Cercis canadensis*

ACTIVITY 4.4

Check students' work or completeness and accuracy.

ACTIVITY 4.5

This activity will last over a period of a few days. Students can be graded on records kept and group work.

ACTIVITY 4.6

1. germination
2. oxygen
3. water
4. sunlight
5. chlorophyll
6. temperature
7. nutrients
8. plant health
9. growth

Final Word: photosynthesis

ACTIVITY 4.7

The temperatures noted are the mean between the average high and low for Oklahoma. Check student numbers for completeness.

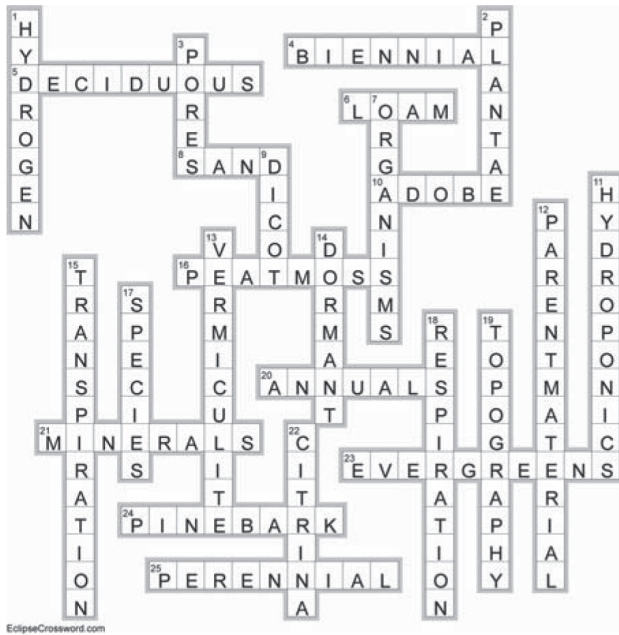
	Average Temperature	Average Precipitation
January	34°F	1.3 in.
February	38°F	1.5 in.
March	48°F	2.8 in.
April	58°F	2.9 in.
May	68°F	5.1 in.
June	76°F	4.0 in.
July	82°F	2.9 in.
August	80°F	2.8 in.
September	72°F	4.3 in.
October	61°F	2.8 in.
November	48°F	2.3 in.
December	37°F	1.4 in.

1. When temperatures either begin to rise or lower, the precipitation increases. Temperatures around 70° F tend to correlate with higher precipitation amounts.
2. For Oklahoma, wheat farmers need good amounts of rain in the months following planting, which usually occurs in the fall, and the months preceding harvest, which typically occurs in the early summer.

ACTIVITY 4.8

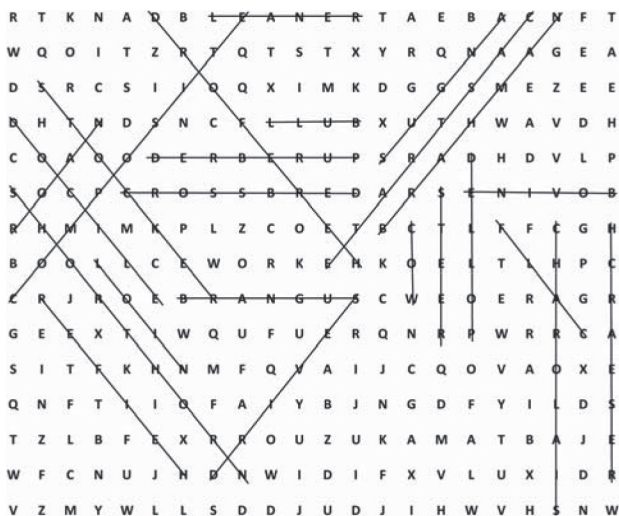
1. clay loam
2. sandy clay
3. sandy clay loam or sandy loam
4. clay
5. silt loam
6. sand
7. silty clay
8. clay or clay loam
9. sandy clay loam
10. clay loam
11. 0-20%
12. 0-30%
13. If a soil is low on sand and silt, this means there is a high percentage of clay which could lead to drainage and nutrient availability issues.

ACTIVITY 4.9



ACTIVITY 5.1

1. bovine
2. bull
3. calf
4. castrate
5. composite
6. cow
7. crossbred
8. heat
9. heifer
10. polled
11. purebred
12. roan
13. steer
14. drives
15. leaner
16. Angus
17. Hereford
18. Shorthorn
19. Charolais
20. docile
21. research
22. Brahman
23. Brangus
24. loin
25. stocker



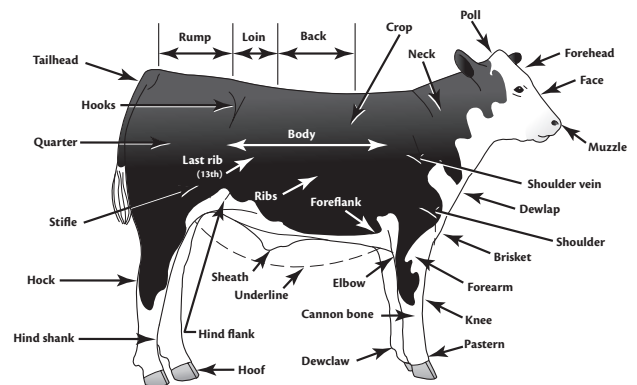
ACTIVITY 5.2

The career research paper can be graded using the research report grading rubric.

ACTIVITY 5.3

The breed research paper can be graded using the research report grading rubric.

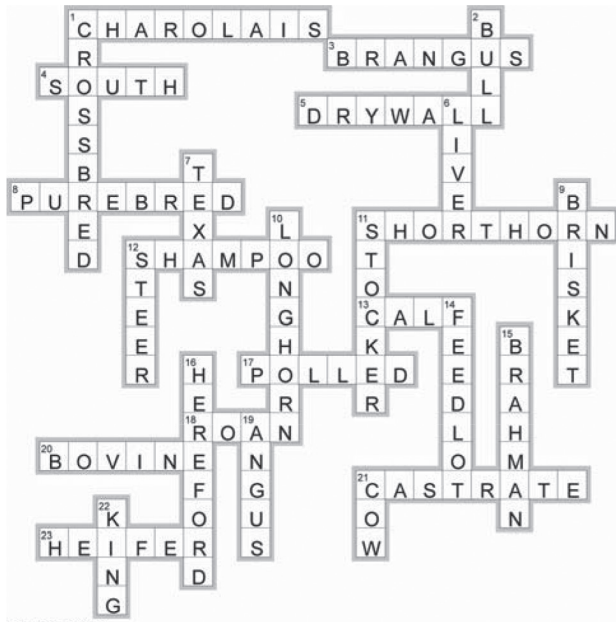
ACTIVITY 5.4



ACTIVITY 5.5

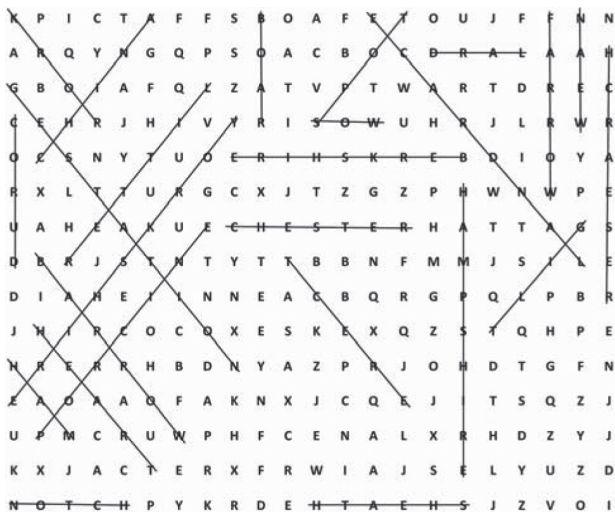
The consumer products poster can be graded using the poster project grading rubric.

ACTIVITY 5.6



ACTIVITY 6.1

1. barrow
2. boar
3. erect
4. farrow
5. gestation
6. gilt
7. lard
8. litter
9. porcine
10. pork
11. sow
12. wean
13. Duroc
14. Hampshire
15. Yorkshire
16. Berkshire
17. Chester
18. Spot
19. China
20. Landrace
21. sheath
22. ham
23. notch
24. research
25. heart



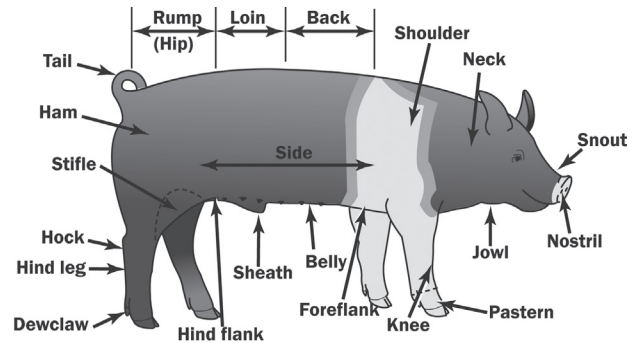
ACTIVITY 6.2

This activity can be graded using the research report grading rubric.

ACTIVITY 6.3

This activity can be graded using the research report grading rubric.

ACTIVITY 6.4

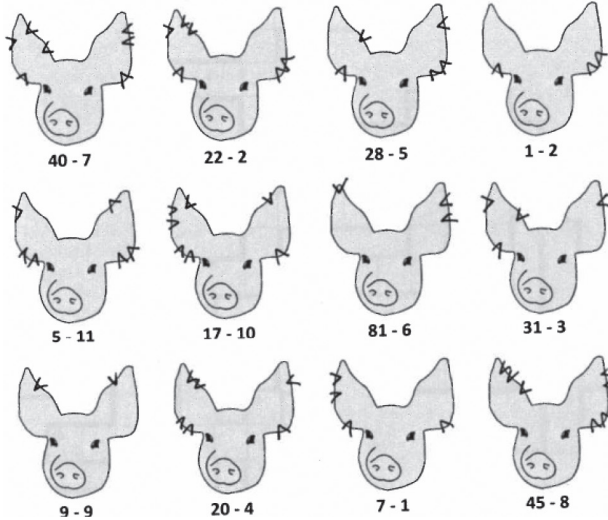


ACTIVITY 6.5

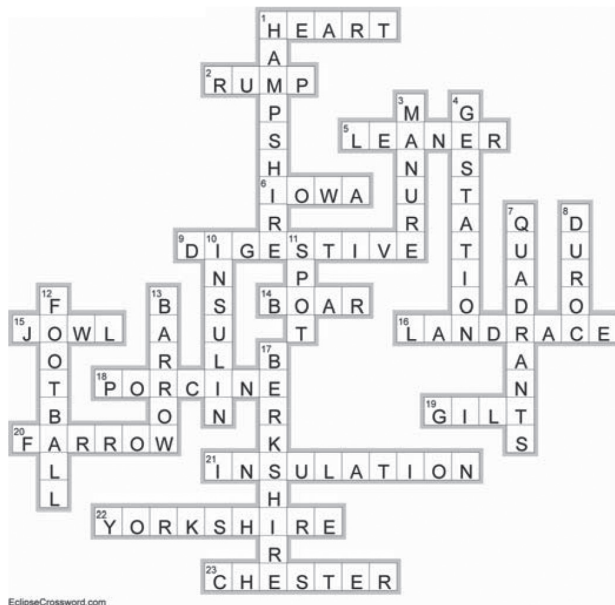
Student answers will vary. Students should list one item for each category.

ACTIVITY 6.6

1. 46-9
2. 4-6
3. 8-2
4. 1-1
5. 2-10
6. 19-12
7. 12-3
8. 81-2
9. 4-5
10. 33-7
11. 7-8
12. 3-11

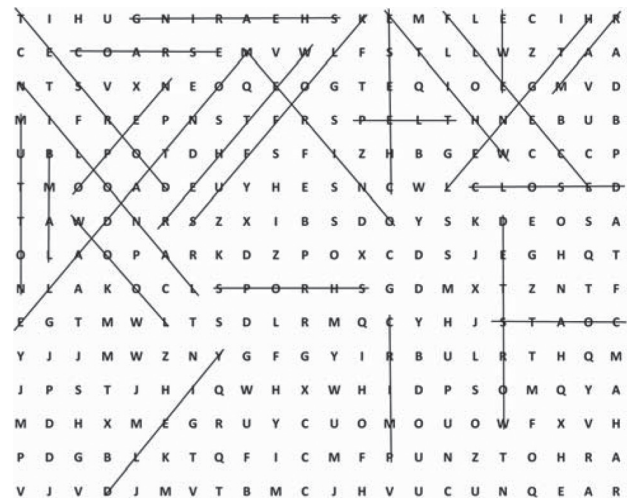


ACTIVITY 6.7



ACTIVITY 7.1

1. closed
2. crimp
3. ewe
4. fleece
5. lanolin
6. lamb
7. mutton
8. open
9. pelt
10. ram
11. shearing
12. wether
13. worsted
14. wool
15. yield
16. Suffolk
17. Shrops
18. Dorset
19. Montadale
20. cheese
21. coats
22. white
23. length
24. coarse
25. Merino



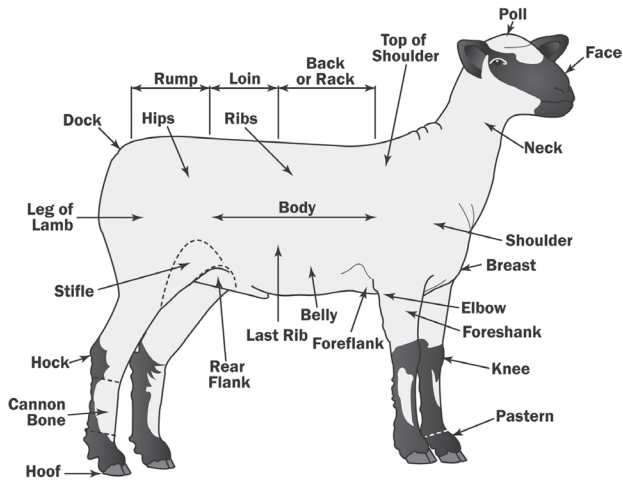
ACTIVITY 7.2

This activity can be graded using the research report grading rubric.

ACTIVITY 7.3

This activity can be graded using the research report grading rubric.

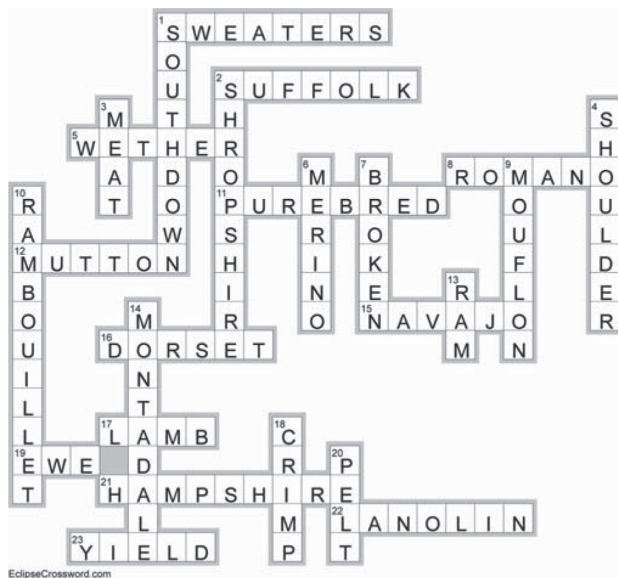
ACTIVITY 7.4



ACTIVITY 7.5

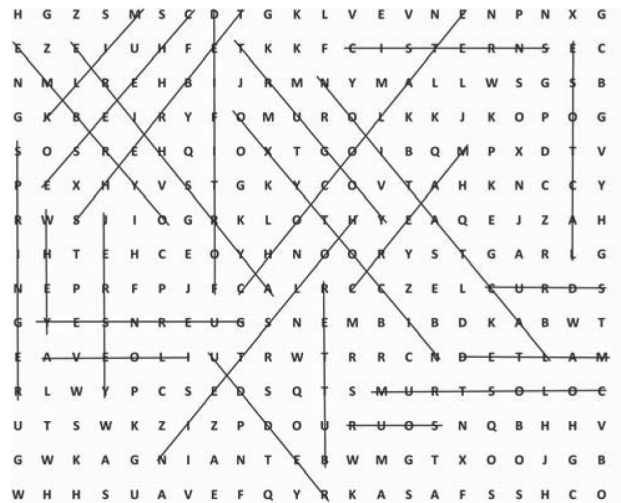
Student answers will vary. Students should list one item for each category.

ACTIVITY 7.6



ACTIVITY 8.1

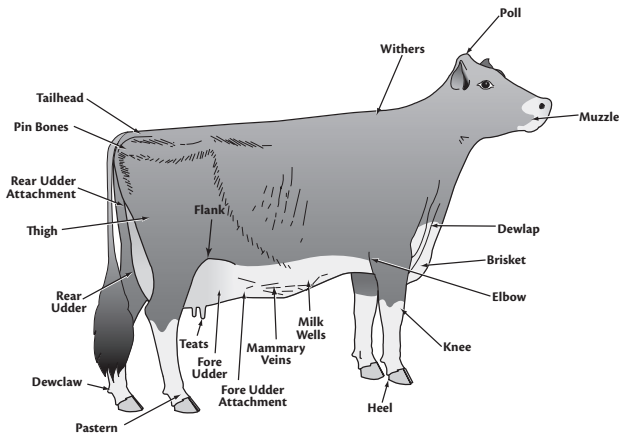
1. aveoli
2. cisterns
3. colostrum
4. cream
5. curds
6. lactation
7. lactose
8. oxytocin
9. springer
10. whey
11. embryo
12. milk
13. sour
14. Holstein
15. Jersey
16. Guernsey
17. Ayrshire
18. udder
19. cheese
20. fortified
21. chocolate
22. malted
23. yogurt
24. sherbet
25. butter



ACTIVITY 8.2

This activity can be graded using the research report grading rubric.

ACTIVITY 8.3



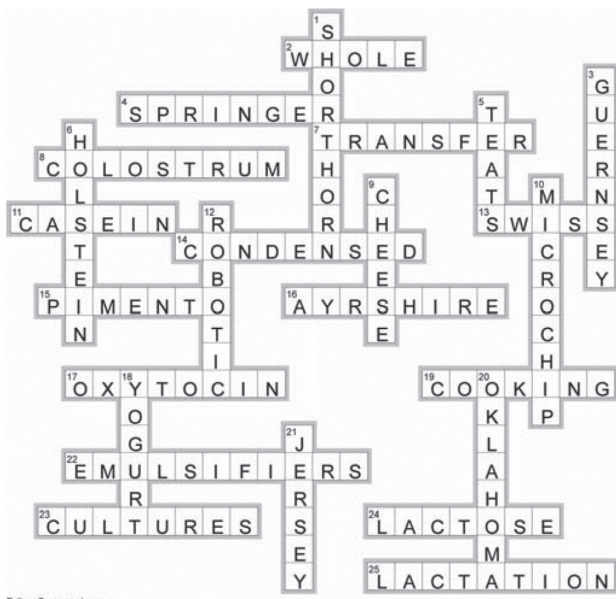
ACTIVITY 8.4

This activity can be graded using the poster project grading rubric.

ACTIVITY 8.5

Students can be graded on participation, ability to follow directions, and end product.

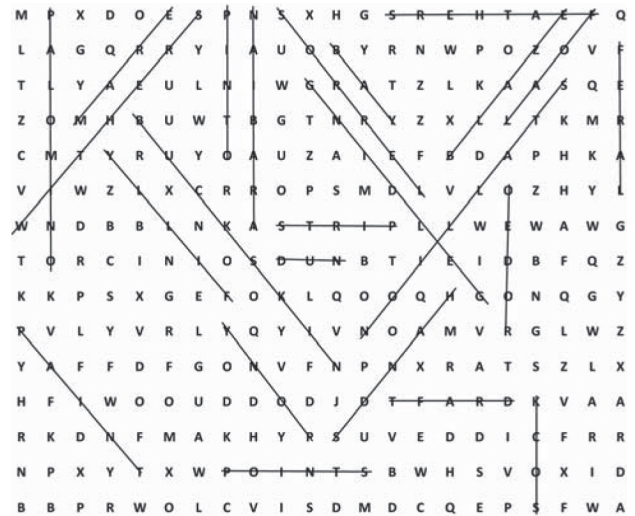
ACTIVITY 8.6



EclipseCrossword.com

ACTIVITY 9.1

- | | |
|--------------|--------------|
| 1. feral | 14. stallion |
| 2. hands | 15. pony |
| 3. draft | 16. withers |
| 4. foal | 17. points |
| 5. filly | 18. feathers |
| 6. gelding | 19. sock |
| 7. Arabian | 20. mare |
| 8. rodeo | 21. strip |
| 9. buckskin | 22. Paint |
| 10. palomino | 23. sorrel |
| 11. dun | 24. bay |
| 12. star | 25. Pinto |
| 13. blaze | |



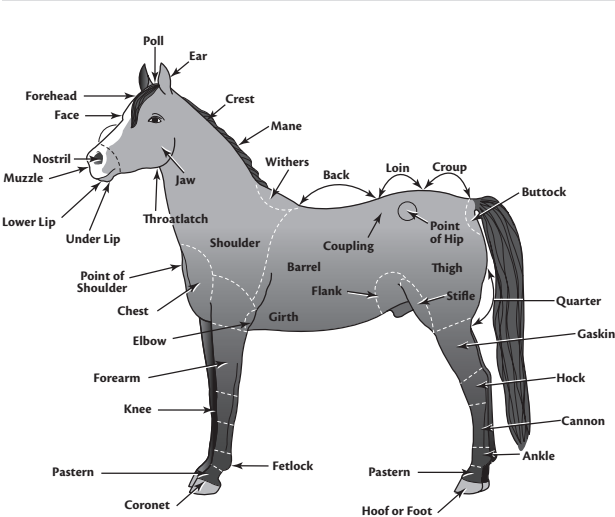
ACTIVITY 9.2

This activity can be graded using the research report grading rubric.

ACTIVITY 9.3

This activity can be graded using the research report grading rubric.

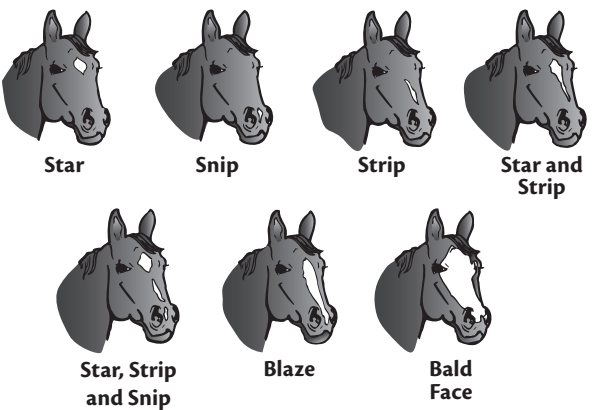
ACTIVITY 9.4



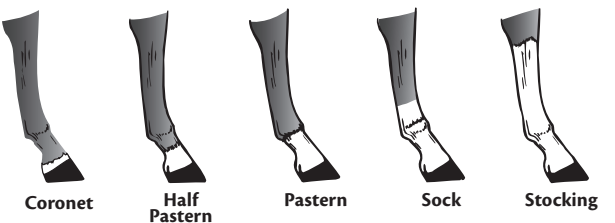
ACTIVITY 9.5

Students can be graded on completeness, and accuracy of colors and labels in the color wheel.

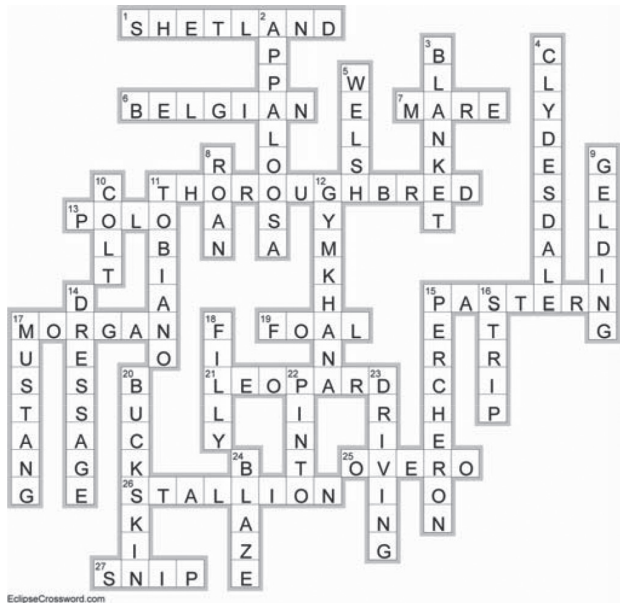
ACTIVITY 9.6



ACTIVITY 9.7

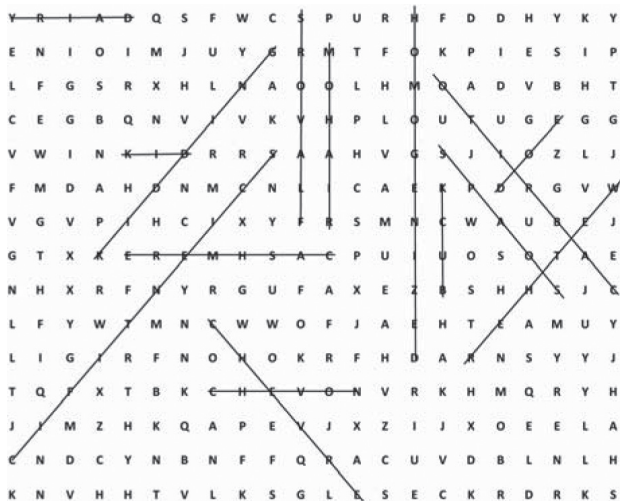


ACTIVITY 9.8



ACTIVITY 10.1

1. doe
2. chevre
3. buck
4. mohair
5. cabrito
6. kidding
7. cashmere
8. kid
9. chevon
10. homogenized
11. wether
12. scientific
13. dairy
14. soaps
15. flavors



ACTIVITY 10.2

Student work can be graded using the report writing grading rubric.

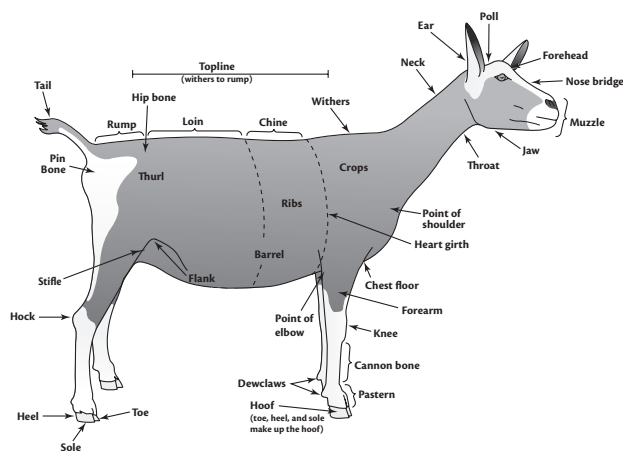
ACTIVITY 10.3

Student work can be graded using the report writing grading rubric.

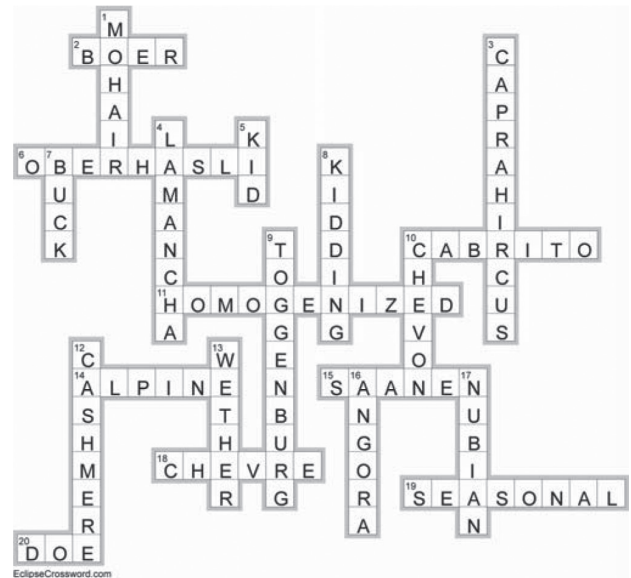
ACTIVITY 10.4

1. cabrito
2. beef (brisket) and pork (chops)
3. cabrito
4. beef (brisket)
5. beef (brisket)
6. chicken (breast)
7. cabrito
8. Answers will vary.
9. Cabrito is low in calories, fat and cholesterol, and high in protein and iron.

ACTIVITY 10.5

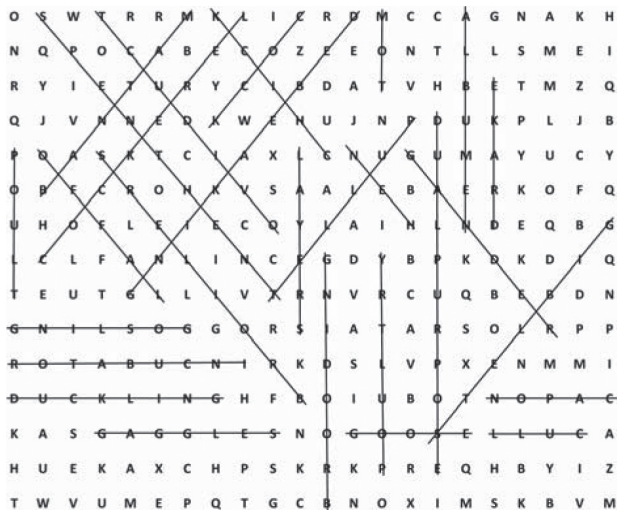


ACTIVITY 10.6



ACTIVITY 11.1

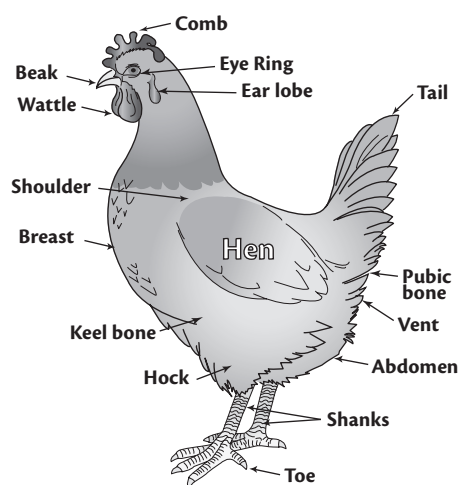
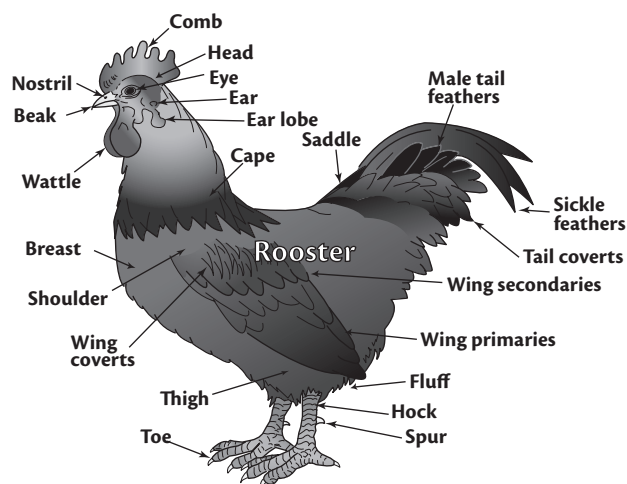
- | | |
|--------------|------------------|
| 1. poultry | 16. pullet |
| 2. pout | 17. flock |
| 3. tom | 18. capon |
| 4. hen | 19. cock |
| 5. duckling | 20. spent hen |
| 6. drake | 21. cull |
| 7. hen | 22. bantam |
| 8. goose | 23. dual purpose |
| 9. gander | 24. oviduct |
| 10. gosling | 25. albumen |
| 11. gaggle | 26. incubator |
| 12. broilers | 27. debeaking |
| 13. layers | 28. brooding |
| 14. chick | 29. giblets |
| 15. cockerel | 30. offal |



ACTIVITY 11.2

1. The Rhode Island Red breed is used more for egg production than meat production because of its dark colored pin feathers and its good rate of lay.
2. yellow
3. They have rectangular, relatively long bodies and are typically dark red in color. Black in the main tail and wing feathers is normal.
4. The Plymouth Rock breed was developed in America in the middle of the 19th century.
5. The Plymouth Rock breed became popular because of its qualities as an outstanding farm chicken: hardiness, docility, broodiness, and excellent production of both eggs and meat.
6. Cock – 8.5 pounds, Hen – 6.5 pounds, Pullet – 5.5 pounds
7. Egg production
8. Leghorns take their name from the city of Leghorn, Italy where they are considered to have originated.
9. Its muscle development and arrangement give excellent carcass shape.
10. Skin color – white, Eggshell color – brown, Use – dual purpose
11. The Langshan breed originated in China.
12. Brahmas are beautiful, stately birds. They are large in size and have intricate color patterns.
13. A strictly ornamental fowl.
14. Cochins are literally big, fluffy balls of feathers. They have profuse leg and foot feathering.
15. It is a general purpose breed for producing meat and/or eggs.

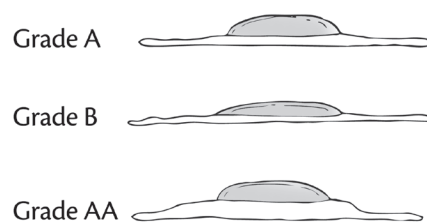
ACTIVITY 11.3



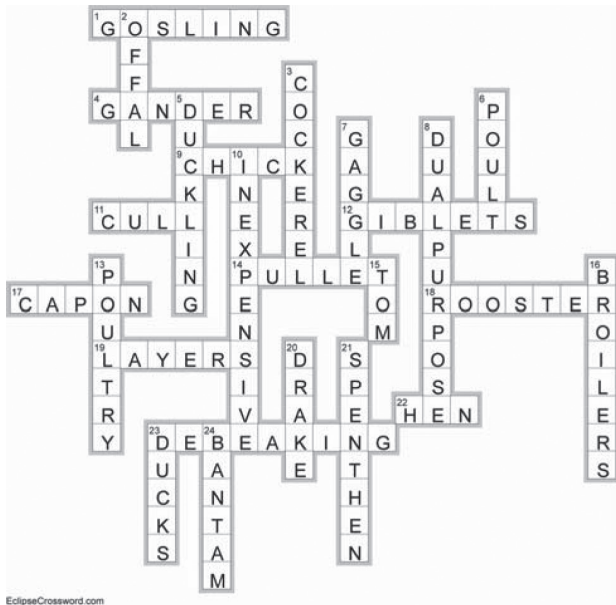
ACTIVITY 11.4

Students can be graded on participation and completeness of answers for this activity.

ACTIVITY 11.5



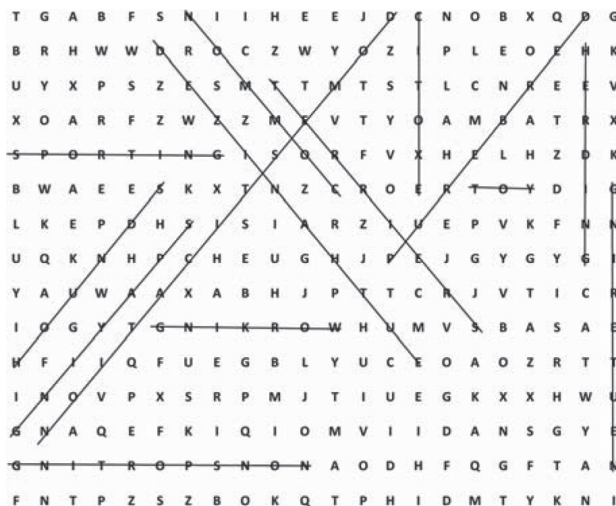
ACTIVITY 11.6



EclipseCrossword.com

ACTIVITY 12.1

- | | |
|------------------|-----------------|
| 1. domestication | 8. non sporting |
| 2. sporting | 9. purebred |
| 3. hounds | 10. common |
| 4. working | 11. exotic |
| 5. terriers | 12. spaying |
| 6. toy | 13. neutering |
| 7. herding | 14. euthanized |



ACTIVITY 12.2

Check student work for completeness.

ACTIVITY 12.3

- | | |
|------------------|--------------------------|
| 1. 105 million | 7. grooming and boarding |
| 2. 9.3 million | 8. 30.1 billion |
| 3. 163.6 million | 9. Food |
| 4. Birds | 10. 60.5 billion |
| 5. 292.2 million | |
| 6. 23 billion | |

ACTIVITY 12.4

Have students discuss their recommendations.
Check student work for completeness.

ACTIVITY 12.5

This activity can be graded using the story writing rubric.

ACTIVITY 12.6

- | | |
|------------|---------------|
| 1. protein | 5. Cat Food 2 |
| 2. fat | 6. Cat Food 3 |
| 3. small | 7. Cat Food 1 |
| 4. large | |

ACTIVITY 12.7

Check student's work for completeness.

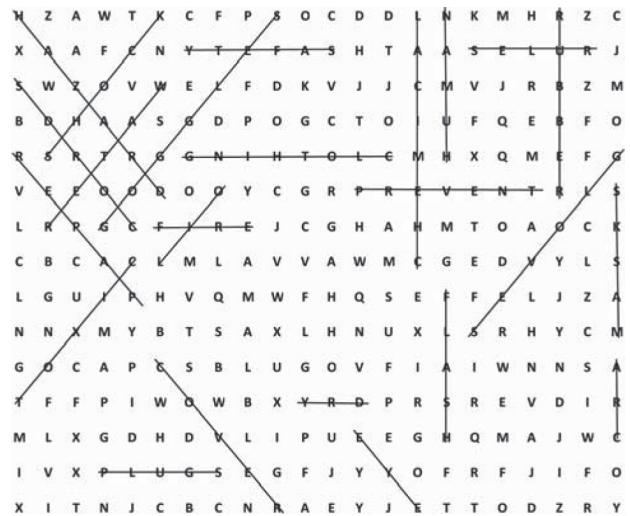
ACTIVITY 12.8



EclipseCrossword.com

ACTIVITY 13.1

- | | |
|-------------|--------------|
| 1. clothing | 14. cover |
| 2. eye | 15. prevent |
| 3. fire | 16. flash |
| 4. cords | 17. water |
| 5. hazard | 18. oil |
| 6. accident | 19. chemical |
| 7. human | 20. safety |
| 8. shock | 21. rules |
| 9. goggles | 22. dry |
| 10. rubber | 23. paper |
| 11. gloves | 24. masks |
| 12. plugs | 25. toxic |
| 13. arc | |



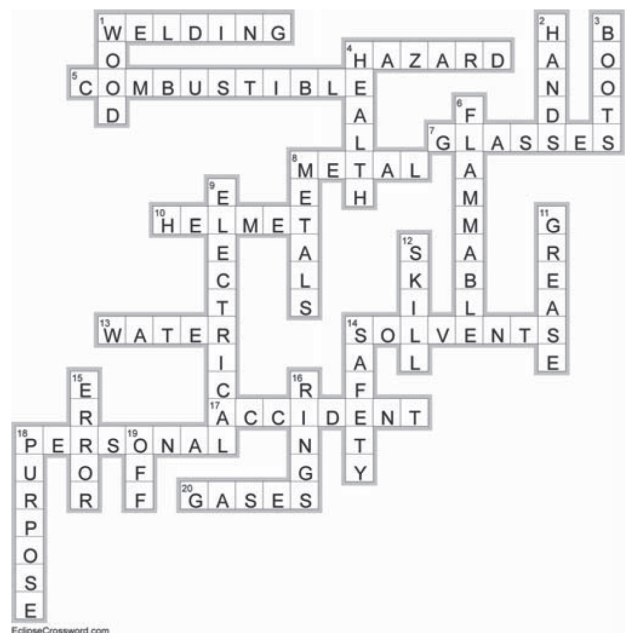
ACTIVITY 13.2

1. No safety goggles while grinding
2. No gloves, short sleeved shirt, helmet may not be of proper lens
3. No gloves, short sleeved shirt, cell phone hanging from pocket may cause a distraction
4. No chains securing the tanks

ACTIVITY 13.3

MOST ACCIDENTS OCCUR DUE TO HUMAN ERROR.

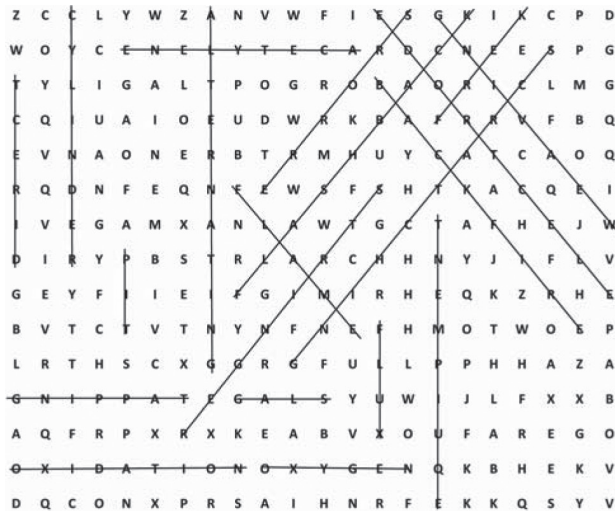
ACTIVITY 13.4



EclipseCrossword.com

ACTIVITY 14.1

1. acetylene
2. alternating
3. backfire
4. cylinder
5. direct
6. electrode
7. equipment
8. errors
9. flame
10. flashback
11. flux
12. kerf
13. oxidation
14. oxygen
15. scratching
16. slag
17. stringer
18. tapping
19. tip
20. weaving



ACTIVITY 14.2

Grading criteria at the end of the activity can be used to evaluate student work.

ACTIVITY 14.3

Grading criteria at the end of the activity can be used to evaluate student work.

ACTIVITY 14.4

Grading criteria at the end of the activity can be used to evaluate student work.

ACTIVITY 14.5

Grading criteria at the end of the activity can be used to evaluate student work.

ACTIVITY 14.6

1. preheat flame was not hot enough, resulting in too slow a cutting speed
2. preheat flame was too hot
3. oxygen pressure too low, resulting in too slow a cutting speed; tip held too close to surface
4. oxygen pressure was too high and the tip size was too small
5. tip was too close to the metal
6. cutting speed was too fast
7. torch travel was unsteady
8. cut was lost and improperly restarted

ACTIVITY 14.7

